

ABSTRACT

Reverse osmosis sea water desalination system,
which comprises a reverse osmosis membrane, a boost pump
5 and a feed device for distributing the water supplied by
the pump and using the pressure of the water rejected by
the membrane, wherein the feed device (2) comprises two
hydraulic cylinders (7) and (8), each consisting of two
jacketed cylinders (71, 72) and (81, 82), respectively
10 that face one another and are each fastened to
intermediate bodies (73) and (83) respectively, with two
separate chambers (74, 75) and (84, 85), the pistons
(76, 77) and (86, 87) of which are connected by common
rods (78) and (88) respectively, a central
15 interconnection body (9) that is fastened to the
intermediate bodies (73, 83), which have a number of
internal pipes that enter the chambers (74, 75, 84, 85)
and enter pipes that (12) communicate with the front
(7a, 7b, 8a, 8b) and rear (7c, 7d, 8c, 8d) cavities and
20 a number of sliding pieces (10) and (11) that are housed
in the chambers (74, 75, 84, 85) and can move between
two end positions.

REVERSE OSMOSIS SEA WATER DESALINATION SYSTEM

5 This system comprises: a reverse osmosis membrane, a boost pump and a feed device for distributing the pressurised water supplied by the pump and using the pressure of the water rejected by the osmosis membrane. The feed device comprises: a first hydraulic cylinder (7) and a second hydraulic cylinder connected to one another by a central interconnection body (9) that establishes different connections between the hydraulic cylinders according to the position of a number of sliding pieces that are housed in the first and second hydraulic
10 cylinder and which move along the rods (78, 88) of the cylinders (71, 72) (81, 82) of said hydraulic cylinders.